CLAIMS

Now, therefore, the following is claimed:

- 1 1. A cartridge storage system comprising:
- a movable component;
- a removable nonvolatile memory component (RNMC); and
- 4 logic configured to store operational data indicative of an operational history
- of the movable component in the RNMC.
- 1 2. The storage system as claimed in claim 1, wherein the movable component
- 2 comprises a data cartridge.
- 1 3. A storage system as claimed in claim 1, wherein the movable component
- 2 comprises a vial.
- 1 4. A storage system as claimed in claim 1, wherein the movable component
- 2 comprises a movable cartridge access device.
- 1 5. The storage system as claimed in claim 4, wherein the logic is configured to
- 2 receive a cartridge retrieval request, the logic further configured to instruct the movable
- 3 cartridge access device to retrieve a cartridge and to load the cartridge into a cartridge
- 4 receiver.
- 1 6. The storage system as claimed in claim 5, wherein the movable cartridge access
- 2 device is configured to communicate data indicative of mechanical events to the logic,
- the logic further configured to receive and to store the data in the RNMC.

- The system as claimed in claim 1, wherein the logic is further configured to save
- 2 system component identification numbers to the RNMC.
- 1 8. The storage system as claimed in claim 1, wherein the RNMC and the logic
- 2 reside on a single printed circuit board.
- 1 9. A cartridge storage system comprising:
- 2 a cartridge access device;
- a removable nonvolatile memory component (RNMC); and
- 4 means for storing operational data associated with the cartridge access device
- 5 in the RNMC.
- 1 10. The system as claimed in claim 9, wherein the storing means and the RNMC
- 2 reside on a single printed circuit board.
- 1 11. The system as claimed in claim 10, wherein the cartridge is a data cartridge
- and the movable cartridge access device is configured to load the data cartridge into a
- 3 cartridge drive.
- 1 12. The system as claimed in claim 10, wherein the cartridge is a vial and the
- 2 movable cartridge access device is configured to load the vial into a vial receiving
- 3 station.
- 1 13. A cartridge management method comprising:

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- 2 automatically transporting a cartridge from one location within a cartridge
- 3 storage system to another location within the cartridge storage system; and
- 4 storing operational data related to the transporting to a removable nonvolatile
- 5 memory component (RNMC).
- 1 14. The method as claimed in claim 13, wherein the cartridge is a data cartridge.
- 1 15. The method as claimed in claim 14, further comprising loading the data
- 2 cartridge into a cartridge drive.
- 1 16. The method as claimed in claim 13, wherein the cartridge is a vial.
 - 1 17. The method as claimed in claim 16, further comprising loading the vial into a
- 2 vial receiving station.
- 1 18. The method as claimed in claim 13, wherein the RNMC resides on a printed
- 2 circuit board (PCB), the method further comprising:
- replacing the first PCB with a second PCB; and
- 4 moving the RNMC from the first PCB to the second PCB.
- 1 19. The method as claimed in claim 18, further comprising detecting a failure of a
- 2 component on the first PCB, wherein the replacing is performed in response to the
- 3 detecting.
- 20. A method for managing a cartridge storage system, comprising:

- transporting of a cartridge from one location to another location within the
- 3 cartridge storage system;
- 4 controlling the transportation, via a first integrated manager, the first
- 5 integrated manager comprising a removable nonvolatile memory component
- 6 (RNMC);
- 7 storing data indicative of the controlling to the RNMC;
- removing the RNMC from the first integrated manager;
- 9 attaching the RNMC to a second integrated manager; and
- controlling operation of the cartridge storage system, via the second integrated
- manager, based on data stored in the RNMC.
- 1 21. The method as claimed in claim 19, wherein the cartridge is a data cartridge.
- 1 22. The method as claimed in clam 20, wherein the cartridge is a vial.